

**ABSTRACT OF THE DISCLOSURE****METHOD AND APPARATUS FOR COUNTING DATA ACCESSES AND  
INSTRUCTION EXECUTIONS THAT EXCEED A THRESHOLD**

A method, apparatus, and computer instructions in a data processing system for processing instructions. An instruction is received at a processor in the data processing system. If an indicator is associated with the instruction in which the indicator identifies a threshold value, execution of the instruction is counted if a time for executing the instruction exceeds the threshold value. Responsive to a request to access data, a determination is made as to whether the indicator is associated with the data. The indicator identifies a threshold value. Access to the data is counted if the indicator is associated with the data and if a time needed to access the data exceeds the threshold value.